



Epoxy.com Product #20

100% Solids Low Viscosity Grout Resin

DESCRIPTION: Epoxy.com **PRODUCT #20** is a moisture insensitive, two-component, 100% solids epoxy resin system manufactured specifically for use in temperatures of 40°F and below. It is recommended for injection or anchor-bolt grouting in the neat state or as a mortar when mixed with up to 3 1/4 parts of **Product #76 -Epoxy Filler** (by volume). **PRODUCT #20** exceeds most requirements of ASTM C-881-90, Types I, Grade 1, Class A.

ADVANTAGES:

- Usable down to 32° F
- Will cure at low temperatures.
- Does not shrink in curing.
- Abrasion and chemical resistant.
- Will produce structural properties within 24 hours - at low temperatures.

WHERE TO USE:

- PRESSURE GROUTING DAMP OR DRY CRACKS
- ANCHOR BOLT GROUT
- CONCRETE SEALER
- MORTAR FOR GROUTING BASE PLATES

PHYSICAL PROPERTIES:

| | | |
|-----------------------------|------------------------------|----------------------|
| Color | Mixed Epoxy - Straw | |
| Mixing Ratio | 2A to 1B by volume | |
| Viscosity | 1800 cps @ 40°F | 500 cps @ 70°F |
| Pot Life | 45 min. @ 40°F | 10 min. @ 70°F |
| Gel Time | 60 min. @ 40°F | 16 min. @ 70°F |
| Compressive Strength | ASTM C 109 Modified | |
| | <u>40°F (4°C)</u> | <u>70°F (21°C)</u> |
| Neat Epoxy | 1 day 12,500 +/- 500 p.s.i | 13,500 +/- 500 p.s.i |
| | 7 days 13,000 +/- 500 p.s.i | 13,500 +/- 500 p.s.i |
| | 14 days 14,000 +/- 500 p.s.i | 14,000 +/- 500 p.s.i |
| Filled (3 1/4 parts filler) | 1 day 5,000 +/- 500 p.s.i | 9,500 +/- 500 p.s.i |
| | 7 days 6,500 +/- 500 p.s.i | 9,500 +/- 500 p.s.i |
| Gel Time (60 gms) | 60 minutes | |
| ASTM C-881-90 | | |
| Viscosity | 1,800 cps | 500 cps |

Slant shear tests meet and exceed requirements of ASTM C 882. Allow 10 to 15 minutes open time to apply **PRODUCT #20**, prior to placement of fresh concrete, when testing slant shear at 40°F (4°C).

SURFACE PREPARATION: All surfaces to receive **Epoxy.com PRODUCT #20** must be free of dirt, grease, curing compound, liquid contaminants, heavy laitance and soft or deteriorated concrete. It's recommended that abrasive blasting, water blasting or acid etching with a 10% solution of commercial

muriatic acid be utilized for surface preparation. Vacuum all areas prior to application to remove fine particles of cement or sand. Surface must be sound.

MIXING: Combine two parts by volume of "A" Component with one part by volume of "B" Component (mixing ratio is 2:1). For best results, mix entire unit. The blend should be thoroughly mixed for at least three minutes with a low speed 1/2" electric drill and Epoxy.com Mixing Paddle. If used as a mortar, introduce the **Epoxy.com Product #76 -Epoxy Filler** slowly while mixing to assure proper aggregate saturation.

APPLICATION: Keep **Epoxy.com PRODUCT #20** warm where possible. This will facilitate mixing and application. No ice should be present when applying.

YIELD: One (1) gallon (3.8 L) of PRODUCT #20, with 3 to 3 1/4 parts of Product #76 -Epoxy Filler, provides approximately 645 cu. in. (1 x 10 cm) of mortar.

LIMITATIONS: Do not thin; solvents will prevent proper cure. Use only oven-dry aggregate to avoid encapsulation of moisture.

CAUTION:

"A" Component: **WARNING!** Contains epoxy resin. May cause skin sensitization or other allergic responses. Avoid inhalation of vapors and all contact with skin or eyes. Use good ventilation. Wear protective clothing, goggles, gloves and/or barrier creams. If contact with skin occurs, wash immediately with soap and water. In case of contact with eyes, flush immediately with water for at least 15 minutes. Contact a physician.

"B" Component: **CAUTION! DANGER!** Contains aliphatic amines. May cause burns, skin sensitization, and other allergic responses. Do not get into eyes, on skin or clothing. Avoid breathing vapors. Keep containers closed. Use with adequate ventilation. In case of contact with eyes or skin, flush immediately with plenty of water for at least 15 minutes. Call a physician. Wear protective clothing, goggles, gloves and/or barrier creams. Remove contaminated clothing and wash before reuse. Discard contaminated shoes.

**FOR INDUSTRIAL USE ONLY
KEEP AWAY FROM CHILDREN**

For more information please contact:

Epoxy.com
352-489-1666 (Phone)
352-465-3497 (Fax)
info@epoxy.com
www.epoxy.com

Epoxy Systems™ Product Company ("ESI") warrants its products (when properly stored) for the period of time as follows one (1) year. ESI warrants that its products will be free of manufacturing defects and will be in conformity with published specifications when handled, stored, mixed and applied in accordance with recommendations of ESI. If any product fails to meet this warranty, the liability of ESI will be limited to replacement of any non-conforming material if notice of such non-conformity is given to ESI within the warranty period for the material (as indicated above), or within 1 year of the delivery of materials (whichever is sooner). ESI may in its discretion refund the price received by ESI in lieu of replacing the material. No customer, distributor, or representative of ESI is authorized to change or modify the published specifications of this warranty in any way. No one is authorized to make oral warranties on behalf of ESI. In order to obtain replacement or refund the customer must provide written notice containing full details of the non-conformity. ESI reserves the right to inspect the non-conforming material prior to replacement. EXCEPT FOR THE EXPRESSED WARRANTY STATED ABOVE, THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR PURPOSE. ESI'S OBLIGATION SHALL NOT EXTEND BEYOND THE OBLIGATIONS EXPRESSLY UNDERTAKEN ABOVE AND ESI SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO THE PURCHASER OR ANY THIRD PARTY FOR ANY LOSS, COST, EXPENSE, DAMAGE OR LIABILITY, WHETHER DIRECT OR INDIRECT, OR FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES. No returns on non-stocking colors, or items. No returns after 10 days. Returns must be unopened containers. All returns must be authorized in advance. Restocking charges will apply to returns. No returns on non-list priced items. All Returns are for merchandise (store) credit only, no cash or credit card credits. This information is presented in good faith to assist in determining whether this product is suitable for application. No warranty or representation, however, is intended or made, nor is protection from any law or patent to be inferred, and all patent rights reserved.